

# JAVA.LANG.EXCEPTIONS

## Introduction

The **java.lang.Exceptions** provides for different exceptions thrown under java lang package.

## Exception Summary

S.N.	Exception & Description
1	<b>ArithmeticException</b> This is Thrown when an exceptional arithmetic condition has occurred.
2	<b>ArrayIndexOutOfBoundsException</b> This is Thrown to indicate that an array has been accessed with an illegal index.
3	<b>ArrayStoreException</b> This is Thrown to indicate that an attempt has been made to store the wrong type of object into an array of objects.
4	<b>ClassCastException</b> This is Thrown to indicate that the code has attempted to cast an object to a subclass of which it is not an instance.
5	<b>ClassNotFoundException</b> This is Thrown when an application tries to load in a class through its string name using: The forName method in class Class.
6	<b>CloneNotSupportedException</b> This is Thrown to indicate that the clone method in class Object has been called to clone an object, but that the object's class does not implement the Cloneable interface.
7	<b>EnumConstantNotPresentException</b> This is Thrown when an application tries to access an enum constant by name and the enum type contains no constant with the specified name.
8	<b>Exception</b> This is the class Exception and its subclasses are a form of Throwable that indicates conditions that a reasonable application might want to catch.
9	<b>IllegalAccessException</b> This is an IllegalAccessException is thrown when an application tries to reflectively create an instance (other than an array), set or get a field, or invoke a method, but the currently executing method does not have access to the definition of the specified class, field, method or constructor.
10	<b>IllegalArgumentException</b> This is Thrown to indicate that a method has been passed an illegal or inappropriate argument.
11	<b>IllegalMonitorStateException</b> This is Thrown to indicate that a thread has attempted to wait on an object's monitor or to notify other

	threads waiting on an object's monitor without owning the specified monitor.
12	<b>IllegalStateException</b> The Signals that a method has been invoked at an illegal or inappropriate time.
13	<b>IllegalThreadStateException</b> This is Thrown to indicate that a thread is not in an appropriate state for the requested operation.
14	<b>IndexOutOfBoundsException</b> This is Thrown to indicate that an index of some sort (such as to an array, to a string, or to a vector) is out of range.
15	<b>InstantiationException</b> This is Thrown when an application tries to create an instance of a class using the newInstance method in class Class, but the specified class object cannot be instantiated.
16	<b>InterruptedException</b> This is Thrown when a thread is waiting, sleeping, or otherwise occupied, and the thread is interrupted, either before or during the activity.
17	<b>NegativeArraySizeException</b> This is Thrown if an application tries to create an array with negative size.
18	<b>NoSuchFieldException</b> The Signals that the class doesn't have a field of a specified name.
19	<b>NoSuchMethodException</b> This is Thrown when a particular method cannot be found.
20	<b>NullPointerException</b> This is Thrown when an application attempts to use null in a case where an object is required.
21	<b>NumberFormatException</b> This is Thrown to indicate that the application has attempted to convert a string to one of the numeric types, but that the string does not have the appropriate format.
22	<b>RuntimeException</b> This is RuntimeException is the superclass of those exceptions that can be thrown during the normal operation of the Java Virtual Machine.
23	<b>SecurityException</b> This is Thrown by the security manager to indicate a security violation.
24	<b>StringIndexOutOfBoundsException</b> This is Thrown by String methods to indicate that an index is either negative or greater than the size of the string.
25	<b>TypeNotPresentException</b> This is Thrown when an application tries to access a type using a string representing the type's name, but no definition for the type with the specified name can be found.
26	<b>UnsupportedOperationException</b> This is Thrown to indicate that the requested operation is not supported.

